

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001486

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: A61N 1/365

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT. Keywords: heart, sounds, control, assist and similar terms

USPTO. Keywords: heart, sounds, r-wave

PUBMED. Keywords: heart, sounds, r-wave

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5792195 A (CARLSON et al.) 11 August 1998 See, especially: column 2, lines 8-49; column 3, lines 31-33; column 3, line 64 - column 4, line 62; claim 1	1-2, 4
P,X	US 6643548 B1 (MAI et al.) 4 November 2003 See, especially: column 11, lines 1-12; claims 8, 15, 17 and 35; Figures 1, 2, 4	1-2, 4-18, 25-34, 36
X	US 2003/0105497 A (ZHU et al.) 5 June 2003 See, especially: claim 13; Figure 4	1

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
17 December 2004

Date of mailing of the international search report
06 JAN 2005

Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaaustralia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer

ROSEMARY LONGSTAFF
Telephone No : (02) 6283 2637

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 1998/014239 A (PACESETTER AB) 9 April 1998 See, especially: abstract; claims	1
X	EP 0080348 B2 (MEDTRONIC INC.) 7 September 1994 See, especially: abstract; claims; figures	1
X	US 5447523 A (SCHALDACH) 5 September 1995 See, especially: claims	1
X	US 4763646 A (LEKHOLM) 16 August 1988 See, especially: abstract; claims; figures	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001486

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
US	5792195		
US	6643548		
US	2003105497		
WO	9814239	EP	0936936
		US	6044299
EP	0080348	US	4428378
US	5447523	DE	3506791
		EP	0194224
		US	4919137
US	4763646	DE	3535504
		EP	0218009
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.			
END OF ANNEX			